

Rocky Flats Environmental Technology Site

RADIOLOGICAL CHARACTERIZATION PACKAGE

SECURITY CLUSTER CLOSURE PROJECT

REVISION 0

March 1, 2001

Prepared by:	Jay M. Britten /	/ AMBATED 2/27/0 Radiological Engineer	<u>ļ.</u>
Reviewed by:	Duane Parsons	RISS Facility Characterization Coordinator	<u>"] .</u>
Reviewed by:	Steve Luker	Quality Assurance	, ! .
Approved by:	Vern Guthrie	Closure Project Facility Manager	



Radiological Characterization Package Security Cluster (B762, B762A, B792, B792A, 550, 761, and 901)

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- * This characterization package was prepared in accordance with MAN-077-DDCP, D&D Characterization Protocols(07/26/00), and MAN-127-PDSP, Demolition Survey Plan for D&D Facilities (02/14/01).
- PDSP Data Quality Objectives were used to develop this characterization package.

Instructions:

- 1. Verify characterization activities are on the Plan-of-the-Day (POD).
- 2. Perform a Pre-Evolution Brief and/or Job Task Brief in accordance with the Site Conduct of Operations Manual.
- 3. Verify personnel have appropriate training for the applicable tasks they will be performing.
- 4. Comply with RWP requirements, if applicable.
- 5. Comply with JHA and facility PPE requirements, as applicable.
- 6. Inform the Facility Manager, or designee prior to starting characterization activities.
- 7. Follow applicable characterization and sampling procedures.
- 8. Notify Wackenhut Security (x2444) and the Shift Supervisor (x2914), and verify appropriate safety precautions/requirements are followed prior to accessing facility roofs.
- 9. Coordination with the Environmental Restoration Program organization will be required to further characterize underneath facility foundations and slabs prior to
- 10. Collect and maintain all characterization paperwork in the Project File(s).
- 11. All radiological surveys shall be conducted in accordance with the sampling and instruction forms included in Security Cluster Package Identification numbers 01-0006, 01-0007, and 01-0008. Sample locations are denoted on scaled maps attached to each survey package.

Class 1 Ar	Areas									
Survey Area	Survey Unit	Class	Description	Total m²	Floor m²	Scan m²	TSA	Smears	Media	TSA Smears Media Class Justification
N/A	A/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No Class 1 Areas identified in this characterization unit. Historical Site Assessment and process knowledge indicate no
										need for this classification.
			Class 1 Totals	0	0	0	0	0	0	

Class 2 Areas Survey Su Area U	nit	Class	Security Cluster (B762, B762A, B792, B792A, 550, 761, and 901) Description m² m² m² TSA Smears Media Class. N/A N/A N/A N/A N/A Historical indicate reliability in the contract of the contr	adiolog ter (B76 Total m²	Radiological Characterization Package Ister (B762, B762A, B792, B792A, 550, 7 Total Floor Scan TSA Smears INA NIA NIA NIA NIA	aracteri 2A, B79; Scan m²	2, B792 2, B792 TSA	Package A, 550, Smears	761, an Media	A, 550, 761, and 901) Smears Media Class Justification No Class 2 Areas identified in this characterization unit. Historical Site Assessment and process knowledge indicate no need for this classification.
			Class 2 Totals	0	0	0	0	0	0	

Radiological Characterization Package Security Cluster (B762, B762A, B792, B792A, 550, 761, and 901)

Survey Area Survey Unit A SEC-A-001									
	nit Class	Description	Total m ²	Floor m ²	Scan m²	TSA	Smears	Media	Ciass Justification
	ღ	Interior of B762, B762A, B792, and B792A	1820	516	182	45-biased Fifteen total sample points per building interior	15-random 45-biased Fifteen total sample points per building interior	0	Areas are not expected to contain, or have ever contained, any residual radioactivity greater than the DCGL _W . Historical Site Assessment and process knowledge of this unit provide a high degree of confidence that no individual measurement will exceed the DCGL _W . A 10% scan will be biased towards areas of greater potential for contamination (e.g., floors and lower walls). Additional biased measurements have been prescibed and will be collected to ensure all building surfaces are adequately characterized. These additional biased measurements are above and beyond requirements set forth in the RFETS PDSP.
A SEC-A-002	e .	Interiors of B550, B761, and B901 [1st Floor - Walls, Floor, Ceiling] [2nd Floor - Walls, Floor, & Ceiling] [3rd Floor - Walls, Floor, & Ceiling]	661	98	29	30-biased 30-biased Fifteen total sample points per building interior	15-random 30-biased Fifteen total sample points per building interior	0	Areas are not expected to contain, or have ever contained, any residual radioactivity greater than the DCGL _W . Historical Site Assessment and process knowledge of this unit provide a high degree of confidence that no individual measurement will exceed the DCGL _W . A 10% scan will be biased towards areas of greater potential for contamination (e.g., floors and lower walls). Additional biased measurements have been prescibed and will be collected to ensure all building surfaces are adequately characterized. These additional biased measurements are above and beyond requirements set forth in the RFETS PDSP.
B SEC-B-003	e	Exterior of B762, B762A, B792, and B792A [including roof], AND Exterior of B550, B761, B901 [including roof]	2613	137	262	90-biased 15 total sample points per building exterior	90-biased 15 total sample points per building exterior	0	Areas are not expected to contain, or have ever contained, any residual radioactivity greater than the DCGL _W . Historical Site Assessment of this unit provides a high degree of confidence that no individual measurement will exceed the DCGL _W . A 10% scan will be biased towards areas of greater potential for contamination (e.g., lower walls & roof areas). Additional biased measurements have been prescibed and will be collected to ensure all building surfaces are adequately characterized. These additional biased measurements are above and beyond requirements set forth in the RFETS PDSP.
			5094	739	511	210	210	0	
All Class Areas		All Class Totals	5094	739	511	210	210	0	

^{*} Larger numbers of biased TSA and Removable sample locations provided to adequately characterize facility surfaces.

			Radiol	ogical (Sharac	diological Characterization Package	n Pack	age		
			Security Cluster (B	3762, B7	762A, E	1792, B7	92A, 55	r (B762, B762A, B792, B792A, 550, 761, and 901)	ind 901)	i
Non-Impacted Areas	ted Area	Si								
Survey Survey Area Unit	Survey Unit	Class	Description	Total m²	Floor m²	Scan m²	TSA	Smears	Media	Media Class Justification
N/A	N/A	N/A	Y/N	N/A	N/A	N/A	N/A	N/A	N/A	No Non-Impacted Areas identified in this characterization unit. Historical Site Assessment and process knowledge indicate no need for this classification.
			Non-Impacted Totals	0	0	0	0	0	0	



Rocky Flats Environmental Technology Site

CHEMICAL CHARACTERIZATION PACKAGE

SECURITY BUILDING CLUSTER CLOSURE PROJECT

REVISION 0

January 30, 2001

Prepared by:	Had I Commenter
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Prepared by:	
	Environmental Compliance
Reviewed by:/	1 44-1/ 1/10
Reviewed by:	Quality Assurance
	/ (
Reviewed by:	June 17 2/1/01
/	RISS Facility Characterization Coordinator
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Approved by:	Closure Project Facility Manager
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CHEMICAL CHARACTERIZATION PACKAGE

BUILDING(s): SECURITY CLUSTER (550, 761, 901, 762, 762A, 792, 792A)

Note: This characterization package was prepared in accordance with MAN-077-DDCP, D&D Characterization Protocols, and MAN-127-PDSP, Pre-Demolition Survey Plan for D&D Facilities.

ASBESTOS		
Sample Location	Estimated Number of Samples	Sample location and justification/rational
550, 761 & 991	10 per building	Asbestos inspections have not been performed. As a result, a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure. Suspect materials include drywall, base cove, floor insulation and roof.
762 & 792	11 per building	Asbestos inspections have not been performed. As a result, a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure. Suspect materials include window cauking, roof and flashing, ceiling tile, floor tile, base cove and drywall.
762A & 792A	24 per building	Asbestos inspections have not been performed. As a result, a comprehensive invasive inspection must be performed in accordance with PRO-563-ACPR, Asbestos Characterization Procedure. Suspect materials include ceiling tile, drywall, base cove, roof and flashing, pipe insulation, linoleum, exterior soffit texture, transite, window caulking.
Total Samples:	100	The exact sample numbers and locations will not be determined until a comprehensive, invasive inspection is performed in accordance with 40 CFR Part 763, Subpart E. Sample locations will be specified on sample maps during characterization efforts. Samples will be obtained in accordance with PRO-653-ACPR, Asbestos Characterization Procedure and 40 CFR 763.

BERYLLIUM		/
Sample Location	Number of Samples (smears)	Sample location and justification/rational
550, 761, 901, 762, 762A, 792, 792A	14 – biased	There is no documented supporting data or process history that proves beryllium was not used or stored in these buildings. Therefore, two biased samples from each of the seven building will be obtained. Buildings have similar history and can be treated as one area.
Total Samples:	14	Samples will be obtained at locations specified on sample map(s) in accordance with PRO-536-BCPR, Beryllium Characterization Procedure. Biased sample locations will correspond with the most probable areas of dust accumulation (including beryllium dust), assuming airborne deposition.

LEAD /		
Sample Location	Number of Samples	Sample location and justification/rational
Security Cluster, all locations	0	Lead sampling is not required for Security Cluster buildings. All paint will remain a part of the infrastructure during demolition and therefore does not require sampling per Environmental Waste Compliance Guidance No. 27, Lead Based Paint (LBP) and LBP Debris Disposal. In addition, these buildings were constructed in 1982, 1983, and 1989, and lead based paint is not probable. Sampling for lead for IH requirements

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	l	will be at the discretion of the demolition contractor.		
Total Samples:	0		/	

Sample Location	Number of Samples	Sample location and justification/rational
Security Cluster	0	No hazardous activities that may have resulted in RCRA or CERCLA constituents occurred in the Security Cluster buildings, therefore sampling for RCRA/CERCLA constituents is not required. Note: These buildings do contain materials that may need to be managed as Regulated Waste during D&D activities including mercury thermostats, fluorescent light bulbs, circuit boards, and HVAC systems. Care will need to be taken to ensure these wastes are managed properly.
Total Samples:	0	

PCBs		
Sample Location	Number of Samples	Sample location and justification/rational
Security Cluster	0	The Security Cluster buildings were constructed in 1982, 1983, and 1989. PCB contamination in the structural debris is not probable. No sampling is required. Note: These buildings do contain materials that may need to be managed as Regulated Waste during D&D activities, such as light ballasts. Care will need to be taken to ensure these wastes are managed properly.
Total Samples:	0	

^{*} PCB ballasts, fluorescent light bulbs, potential mercury switches in thermostats, and mercury vapor light bulbs shall be removed prior to demolition.





INTEROFFICE MEMORANDUM

DATE:

March 1, 2001

TO:

C. K. Bean, RISS Radiological Safety Manager, B116, X2069

J. W. Mahaffey, Central Radiological Engineering Manager, T130 B, X2131

FROM:

J. M. Britten, RISS Characterization Radiological Engineer, Bldg. 116, X3050

SUBJECT:

REQUEST FOR APPROVAL OF ALPHA-ONLY SURVEYS FOR SECURITY

CLUSTER BUILDING SURFACES- JMB-003-01

Upon reviewing the Historical Site Assessment Report for the Security Cluster (B762, B762A, B792, B792A, B550, B761, and B901), RISS Radiological Engineering has determined that these facilities meet the requirements set forth in Technical Basis Document 00162. No unusual isotopes were identified in the HSA (i.e., pure beta emitters, mixed fission products). Therefore, it is requested that alpha-only surveys be performed in these indicated areas for the release of building surfaces. Please review the attached documentation, and if the content meets requirements, provide your approval signature in the space provided. The original of this memorandum will be kept in the project history files located in B116.

APPROVED:

C. K. Bean

Date

RISS Radiological Safety Manager

Central Radiological/Engineering Manager

JMB:nll

CC:

D. Parsons

Project History File

Facility ID: B762, B762A

Anticipated Facility Type (1, 2, or 3): Type I

Refer to attached site drawing for facility location.

This facility specific Historical Site Assessment (HSA) has been performed in accordance with:

D&D Characterization Protocol, RFETS MAN-077-DDCP, latest version, and Facility Disposition Program Manual, RFETS MAN-076-FDPM, latest version

Radiological Contaminants of Concern

Radiological Contaminants

Describe any potential, likely, or known radiological production or storage locations:

No known chemical or radioactive materials ever present in indicated facilities.

Describe any potential, likely, or known spill locations (e.g., known leaking sealed radioactive sources, leaking waste drums, potentially contaminated drains, etc.):

N/A

Describe methods in which spills were mitigated, if any:

N/A

Describe any potential, likely, or known isotopes of concern (e.g., weapons grade plutonium, uranium isotopes, pure beta emitters, mixed fission products, etc.):

No known pure beta emitting isotopes or mixed fission products ever located in these facilities.

Describe any potential, likely, or known external facility contamination (e.g., stack release points, unfiltered ventilation, facility's physical location to known site releases, etc.):

N/A

Project RE / Signature

Central REV Signature

Date

Doto

HISTORICAL FACILITY OVERVIEW FOR BUILDING 762, GUARD POST, PORTAL 1

Building 762 Guard Post, Portal 1, was constructed in approximately 1983. Building 762 was designed and constructed as a Guard Post and vehicular access control point to the protected area. It is located at the southwest corner of Ninth Street and the Patrol Road in the protected area. The Guard Post allowed access to the protected area when security was enhanced for the plutonium buildings by the construction of the security zone. Building 762 is approximately 16' wide X 23' long X 11' 6" high. Building 762 accounts for approximately 368 square feet of floor space. The building has a 4" poured concrete floor and twin-tee prestressed concrete roof/deck which is sloped to the west for roof drainage and the roof has a 4' overhang on all four sides. The roof covering construction is 2" lightweight concrete over the twin-tee, Styrofoam insulation, felt, asphalt and gravel. The building's outer walls are 6" thick poured steel reinforced concrete construction. Building 762 Guard Post was designed with all bullet proof glass, gun or weapon, slots in all four outer walls, and a double steel plate access door with bullet proof glass. Building 762 has a Men's/Women's Restroom. Building 762 has emergency power to it and an UPS system for critical equipment in case of emergency power failure. The interior walls of Building 762 have been insulated, covered with drywall, and painted. All the partition walls used 2" X 4" metal studs to support the drywall. Lead-based paints and asbestos may have been used during the construction of this facility. Building 762 has a drop acoustical tile ceiling that has been insulated. Radiometric detection equipment is located in the personnel walkway and the vehicular access driveway that is controlled from Building 762.

There is no information to indicate that PCB containing equipment was ever installed or stored in Building 762. No known chemical or radioactive materials were ever stored in Building 762. A WSRIC, either current or deleted, could not be found for Building 762. Known or historical information does not indicate Building 762 was ever a RCRA storage or RCRA 90-day accumulation area. Building 762 was not constructed on any known IHSS/PAC land or soils.

Building 762 was always used as a Guard Post, Portal 1. The facility currently is operational.

HISTORICAL FACILITY OVERVIEW FOR BUILDING 762A, PERSONNEL ACCESS CONTROL 707 (PACS 1)

Building 762A, Personnel Access Control (PACS 1), was constructed in approximately 1989. It is located to the south of Building 762 and extends into the Building 707 parking lot. Building 762A was designed and constructed as an enhanced personnel control point to the protected area. The enhanced security consisted of, metal detectors, airport type X-Ray machine for hand carried items, and a badge and hand scanner to gain access to a turnstile to enter the protected area. After leaving the turnstile or entering it from the protected area personnel pass through a radiometric detector. The building has 3 X-ray machines, 7 metal detectors, 5 turnstiles, and 3 radiometric detectors. Building 762A is approximately 60' wide X 70' long X 17' high. Building 762A accounts for approximately 4200 square feet of floor space. The building has a 6" poured concrete floor. Bolted to the floor is a pre-engineered steel structure with a metal panel roof that slopes to the east and west for drainage. The building's outer walls consist of gypsum sheathing over insulation bating between metal studs covered with insulating board. The exterior insulation board was then covered with a trawled on stucco finish. The buildings interior walls are gypsum board over the batting insulation and have been painted. The Building 762A operators' work station has been hardened with a steel plate placed over the drywall and the windows in two sides of the room are bullet proof glass. Building 762A has emergency power to it and an UPS system for critical equipment in case of emergency power failure. Building 762A has a Men's/Women's Restroom. All the partition walls used 2" X 4" metal studs to support the drywall. Lead-based paints and asbestos may have been used during the construction of this facility. Building 762A has a drop acoustical tile ceiling. The building has its' own emergency generator. HVAC is supplied by an electric heat pump.

There is no information to indicate that PCB containing equipment was ever installed or stored in Building 762A. No known chemical or radioactive materials were ever stored in Building 762A. A WSRIC, either current or deleted, could not be found for Building 762A. Known or historical information does not indicate Building 762A was ever a RCRA storage or RCRA 90-day accumulation area. Building 762A was not constructed on any known IHSS/PAC land or soils.

Building 762A was always used as PACS 1. The facility currently is operational.



Facility ID: B762, B762A

Anticipated Facility Type (1, 2, or 3): Type I

Refer to attached site drawing for facility location.

This facility specific Historical Site Assessment (HSA) has been performed in accordance with:

D&D Characterization Protocol, RFETS MAN-077-DDCP, latest version, and Facility Disposition Program Manual, RFETS MAN-076-FDPM, latest version

Radiological Contaminants of Concern

Radiological Contaminants

Describe any potential, likely, or known radiological production or storage locations:

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Describe any potential, likely, or known spill locations (e.g., known leaking sealed radioactive sources, leaking waste drums, potentially contaminated drains, etc.):

Describe methods in which spills were mitigated, if any:

Man

Describe any potential, likely, or known isotopes of concern (e.g., weapons grade plutonium, uranium isotopes, pure beta emitters, mixed fission products, etc.):

Describe any potential, likely, or known external facility contamination (e.g., stack release points, unfiltered ventilation, facility's physical location to known site releases, etc.):

Signature

2/24/01 Date

Facility ID: B792 & B792A

Anticipated Facility Type (1, 2, or 3): Type I

Refer to attached site drawing for facility location.

This facility specific Historical Site Assessment (HSA) has been performed in accordance with:

D&D Characterization Protocol, RFETS MAN-077-DDCP, latest version, and Facility Disposition Program Manual, RFETS MAN-076-FDPM, latest version

Radiological Contaminants of Concern

Radiological Contaminants

Describe any potential, likely, or known radiological production or storage locations:

No known chemical or radioactive materials ever stored in indicated facilities.

Describe any potential, likely, or known spill locations (e.g., known leaking sealed radioactive sources, leaking waste drums, potentially contaminated drains, etc.):

N/A

Describe methods in which spills were mitigated, if any:

N/A

Describe any potential, likely, or known isotopes of concern (e.g., weapons grade plutonium, uranium isotopes, pure beta emitters, mixed fission products, etc.):

No know pure beta emitting isotopes or mixed fission products ever stored in indicated facilities.

Describe any potential, likely, or known external facility contamination (e.g., stack release points, unfiltered ventilation, facility's physical location to known site releases, etc.):

N/A

Project RE / Signature

2

Central RE / Signature

Date

HISTORICAL FACILITY OVERVIEW FOR BUILDING 792, GUARD POST, PORTAL 3

Building 792 Guard Post, Portal 3, was constructed in approximately 1983. Building 792 was designed and constructed as a Guard Post and personnel control point to the protected area. It is located at the southwest corner of the personnel walkway from Building 792A and the Patrol Road in the protected area. The Guard Post allowed access to the protected area when security was enhanced for the plutonium buildings by the construction of the security zone. Building 792 is approximately 16' wide X 18' long X 11' 6" high. Building 792 accounts for approximately 288 square feet of floor space. The building has a 4" poured concrete floor and twin-tee prestressed concrete roof/deck which is sloped to the west for roof drainage and the roof has a 4' overhang on all four sides. The roof covering construction is 2" lightweight concrete over the twin-tee, Styrofoam insulation, felt, asphalt and gravel The building's outer walls are 6" thick poured steel reinforced concrete construction. Building 792 Guard Post was designed with all bullet proof glass, gun or weapon, slots in all four outer walls, and a double steel plate access door with bullet proof glass. Building 792 has a Men's/Women's Restroom. Building 792 has emergency power to it and an UPS system for critical equipment in case of emergency power failure. The interior walls of Building 792 have been insulated, covered with drywall, and painted. All the partition walls used 2" X 4" metal studs to support the drywall. Lead-based paints and asbestos may have been used during the construction of this facility. Building 792 has a drop acoustical tile ceiling that has been insulated. Radiometric detection equipment is located in the personnel walkway that is controlled from Building 792.

There is no information to indicate that PCB containing equipment was ever installed or stored in Building 792. No known chemical or radioactive materials were ever stored in Building 792. A WSRIC, either current or deleted, could not be found for Building 792. Known or historical information does not indicate Building 792 was ever a RCRA storage or RCRA 90-day accumulation area. Building 792 was not constructed on any known IHSS/PAC land or soils.

Building 792 was always used as a Guard Post, Portal 1. The facility currently is operational.



HISTORICAL FACILITY OVERVIEW FOR BUILDING 792A, PERSONNEL ACCESS CONTROL 771 (PACS 3)

Building 792A, Personnel Access Control (PACS 3), was constructed in approximately 1989. It is located to the north of Building 792 and extends into the Building 771 parking lot. Building 792A was designed and constructed as an enhanced personnel control point to the protected area. The enhanced security consisted of, metal detectors, airport type X-Ray machine for hand carried items, and a badge and hand scanner to gain access to a turnstile to enter the protected area. After leaving the turnstile or entering it from the protected area personnel pass through a radiometric detector. The building has 1 X-ray machine, 2 metal detectors, 2 turnstiles, and 2 radiometric detectors. Building 792A is approximately 25' wide X 69' long X 14' high. Building 792A accounts for approximately 1625 square feet of floor space. The building has a 6" poured concrete floor. Bolted to the floor is a pre-engineered steel structure with a metal panel roof that slopes to the east and west for drainage. The building's outer walls consist of gypsum sheathing over insulation bating between metal studs covered with insulating board. The exterior insulation board was then covered with a trawled on stucco finish. The buildings interior walls are gypsum board over the batting insulation and have been painted. The Building 792A operators' work station has been hardened with a steel plate placed over the drywall and the windows in two sides of the room are bullet proof glass. Building 792A has emergency power to it and an UPS system for critical equipment in case of emergency power failure. Building 792A has a Men's/Women's Restroom. All the partition walls used 2" X 4" metal study to support the drywall. Lead-based paints and asbestos may have been used during the construction of this facility. Building 792A has a drop acoustical tile ceiling. The building has its' own emergency generator. HVAC is supplied by an electric heat pump.

There is no information to indicate that PCB containing equipment was ever installed or stored in Building 792A. No known chemical or radioactive materials were ever stored in Building 792A. A WSRIC, either current or deleted, could not be found for Building 792A. Known or historical information does not indicate Building 792A was ever a RCRA storage or RCRA 90-day accumulation area. Building 792A was not constructed on any known IHSS/PAC land or soils.

Building 792A was always used as PACS 3. The facility currently is operational.



Facility ID: B792 & B792A

Anticipated Facility Type (1, 2, or 3): Type I

Refer to attached site drawing for facility location.

This facility specific Historical Site Assessment (HSA) has been performed in accordance with:

D&D Characterization Protocol, RFETS MAN-077-DDCP, latest version, and Facility Disposition Program Manual, RFETS MAN-076-FDPM, latest version

Radiological Contaminants of Concern

Radiological Contaminants

Describe any potential, likely, or known radiological production or storage locations:

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Describe any potential, likely, or known spill locations (e.g., known leaking sealed radioactive sources, leaking waste drums, potentially contaminated drains, etc.):

Describe methods in which spills were mitigated, if any:

Describe any potential, likely, or known isotopes of concern (e.g., weapons grade plutonium, uranium isotopes, pure beta emitters, mixed fission products, etc.):

Describe any potential, likely, or known external facility contamination (e.g., stack release points, unfiltered ventilation, facility's physical location to known site releases, etc.):

Signature

William !

Date

Facility ID: 550, 761, 901 (Guard Towers) Anticipated Facility Type (1, 2, or 3): Type I

Refer to attached site drawing for facility location.

This facility specific Historical Site Assessment (HSA) has been performed in accordance with:

D&D Characterization Protocol, RFETS MAN-077-DDCP, latest version, and Facility Disposition Program Manual, RFETS MAN-076-FDPM, latest version

Radiological Contaminants of Concern

Radiological Contaminants

Describe any potential, likely, or known radiological production or storage locations:

No known radioactive materials were ever stored in any of the indicated facilities.

Describe any potential, likely, or known spill locations (e.g., known leaking sealed radioactive sources, leaking waste drums, potentially contaminated drains, etc.):

N/A

Describe methods in which spills were mitigated, if any:

N/A

Describe any potential, likely, or known isotopes of concern (e.g., weapons grade plutonium, uranium isotopes, pure beta emitters, mixed fission products, etc.):

No pure beta emitting isotopes or mixed fission products ever known to be located in indicated facilities.

Describe any potential, likely, or known external facility contamination (e.g., stack release points, unfiltered ventilation, facility's physical location to known site releases, etc.):

N/A

Project RE / Signature

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HISTORICAL FACILITY OVERVIEW FOR BUILDING 761, GUARD TOWER NUMBER 1

Building 761, Guard Tower Number 1, was constructed in approximately 1983 as part of the enhanced security zone surrounding the plutonium buildings. Building 761 was designed and constructed as a Guard Tower to provide an elevated line of sight and firing platform for the fenced portion of the zone from Building 762 to the top of the hill above Building 995. Building 761 is approximately 12' square X 45' high. Building 761 accounts for approximately 144 square feet of floor space. The building has a 4" thick reinforced concrete floor first floor. The building's outer walls are 8" thick reinforced concrete block construction with the void space filled with grout. The walls reinforced concrete foundation is tied into a 15' square, 14 inch thick reinforced concrete block 3' below grade. An open metal grating stair leads up to the equipment room level at 26' above the ground floor. The floor at this level is an 8" thick reinforced concrete slab. The walls at this level are the same construction as below this level and are approximately 10' high to the next level. This level is the observation deck. Its' floor is a 8" thick reinforced concrete slab that supports 8"thick reinforced concrete walls to the bottom of the windows. Building 761 was designed with all bullet proof glass, gun or weapon, slots in all four outer walls. The roof of the tower is supported on all four corners with square metal structural tubing. It is a 7" thick reinforced concrete slab 15' square that slopes away from the side where the building entrance is. The roof is covered with rigid insulation and topped with EDPM membrane. A searchlight is mounted on the roof and operated from the observation deck. The tower has emergency power to it and an UPS system for critical equipment in case of emergency power failure. The interior walls of observation deck have been insulated, covered with drywall, and painted. Leadbased paints and asbestos may have been used during the construction of this facility.

There is no information to indicate that PCB containing equipment was ever installed or stored in Building 761. No known chemical or radioactive materials were ever stored in Building 761 A WSRIC, either current or deleted, could not be found for Building 761. Known or historical information does not indicate Building 761 was ever a RCRA storage or RCRA 90-day accumulation area. Building 761 was not constructed on any known IHSS/PAC land or soils.

Building 761 was always used as a Guard Tower. The facility currently is not operational.



HISTORICAL FACILITY OVERVIEW FOR BUILDING 901, GUARD TOWER NUMBER 2

Building 901, Guard Tower Number 2, was constructed in approximately 1983 as part of the enhanced security zone surrounding the plutonium buildings. Building 901 was designed and constructed as a Guard Tower to provide an elevated line of sight and firing platform for the fenced portion of the zone from Building 792 to the top of the hill above Building 995. Building 901 is approximately 12' square X 45' high. Building 901 accounts for approximately 144 square feet of floor space. The building has a 4" thick reinforced concrete floor first floor. The building's outer walls are 8" thick reinforced concrete block construction with the void space filled with grout. The walls reinforced concrete foundation is tied into a 15' square, 14 inch thick reinforced concrete block 3' below grade. An open metal grating stair leads up to the equipment room level at 26' above the ground floor. The floor at this level is an 8" thick reinforced concrete slab. The walls at this level are the same construction as below this level and are approximately 10' high to the next level. This level is the observation deck. Its' floor is a 8" thick reinforced concrete slab that supports 8"thick reinforced concrete walls to the bottom of the windows. Building 901 was designed with all bullet proof glass, gun or weapon, slots in all four outer walls. The roof of the tower is supported on all four corners with square metal structural tubing. It is a 7" thick reinforced concrete slab 15' square that slopes away from the side where the building entrance is. The roof is covered with rigid insulation and topped with EDPM membrane. A searchlight is mounted on the roof and operated from the observation deck. The tower has emergency power to it and an UPS system for critical equipment in case of emergency power failure. The interior walls of observation deck have been insulated, covered with drywall, and painted. Leadbased paints and asbestos may have been used during the construction of this facility.

There is no information to indicate that PCB containing equipment was ever installed or stored in Building 901. No known chemical or radioactive materials were ever stored in Building 901 A WSRIC, either current or deleted, could not be found for Building 901. Known or historical information does not indicate Building 901 was ever a RCRA storage or RCRA 90-day accumulation area. Building 901 was not constructed on any known IHSS/PAC land or soils.

Building 901 was always used as a Guard Tower. The facility currently is not operational.



HISTORICAL FACILITY OVERVIEW FOR BUILDING 550, GUARD TOWER NUMBER 3

Building 550, Guard Tower Number 3, was constructed in approximately 1983 as part of the enhanced security zone surrounding the plutonium buildings. Building 550 was designed and constructed as a Guard Tower to provide an elevated line of sight and firing platform for the fenced portion of the zone from Building 792 to the top of the hill southwest of Building 371. Building 550 is approximately 12' square X 35' high. Building 550 accounts for approximately 144 square feet of floor space. The building has a 4" thick reinforced concrete floor first floor. The building's outer walls are 8" thick reinforced concrete block construction with the void space filled with grout. The walls reinforced concrete foundation is tied into a 15' square, 14 inch thick reinforced concrete block 3' below grade. An open metal grating stair leads up to the equipment room level at 16' above the ground floor. The floor at this level is an 8" thick reinforced concrete slab. The walls at this level are the same construction as below this level and are approximately 10' high to the next level. This level is the observation deck. Its' floor is a 8" thick reinforced concrete slab that supports 8"thick reinforced concrete walls to the bottom of the windows. Building 550 was designed with all bullet proof glass, gun or weapon, slots in all four outer walls. The roof of the tower is supported on all four corners with square metal structural tubing. It is a 7" thick reinforced concrete slab 15' square that slopes away from the side where the building entrance is. The roof is covered with rigid insulation and topped with EDPM membrane. A searchlight is mounted on the roof and operated from the observation deck. The tower has emergency power to it and an UPS system for critical equipment in case of emergency power failure. The interior walls of observation deck have been insulated, covered with drywall, and painted. Leadbased paints and asbestos may have been used during the construction of this facility.

There is no information to indicate that PCB containing equipment was ever installed or stored in Building 550. No known chemical or radioactive materials were ever stored in Building 550 A WSRIC, either current or deleted, could not be found for Building 550. Known or historical information does not indicate Building 550 was ever a RCRA storage or RCRA 90-day accumulation area. Building 550 was not constructed on any known IHSS/PAC land or soils.

Building 550 was always used as a Guard Tower. The facility currently is not operational.



Facility ID: 550, 761, 901 (Guard Towers) Anticipated Facility Type (1, 2, or 3): Type I

Refer to attached site drawing for facility location.

This facility specific Historical Site Assessment (HSA) has been performed in accordance with:

D&D Characterization Protocol, RFETS MAN-077-DDCP, latest version, and

Facility Disposition Program Manual, RFETS MAN-076-FDPM, latest version
Radiological Contaminants of Concern
Radiological Contaminants Describe any potential, likely, or known radiological production or storage locations: Should not be a subdiving a subdivi
Describe any potential, likely, or known spill locations (e.g., known leaking sealed radioactive sources, leaking waste drums, potentially contaminated drains, etc.):
Describe methods in which spills were mitigated, if any:
Describe any potential, likely, or known isotopes of concern (e.g., weapons grade plutonium, uranium isotopes, pure beta emitters, mixed fission products, etc.):
Describe any potential, likely, or known external facility contamination (e.g., stack release points, unfiltered ventilation, facility's physical location to known site releases, etc.):

Signature